

**AMENDMENTS TO THE SPECIFICATION:**

Please replace the Paragraph on Page 1, Line 30 to Page 2, Line 5, with the following amended Paragraph:

In order to overcome the above-mentioned disadvantages, the invention provides a modified lithium ion polymer battery based essentially on the modification of the binder, and then application of the binder on the positive and negative electrode sheets, as well as in combination with a separation membrane laminated between said positive and negative electrode sheets, characterized in that no plasticizer is necessary to be incorporated in the modified lithium ion polymer battery according to the invention, and hence any extraction step can be omitted, and that a copper/aluminum foils is used ~~in stead~~ instead of copper/aluminum sieves as the collector.

Please replace the Paragraph on Page 3, Lines 15-24, with the following amended Paragraph:

(b)  $\pm 0.1\text{wt}\%\sim 90\text{wt}\%$  of a modified polyacrylates, is a substance made by co-polymerizing more than 60 wt% of a carboxylic acid or carboxylic acid ester as the major constituent selected from a group consisting of acrylonitrile, 2-ethylhexyl acrylate, acrylic acid, methacrylic acid, methyl acrylate, methyl methacrylate, ethyl acrylate, butyl acrylate, butyl methacrylate, ethyl acrylate, propyl acrylate, acrylamide, vinyl acetate, dodecyl acrylate, octadecyl acrylate, hydroxyethyl acrylate, hydroxypropyl acrylate,

itaconic acid and the like; and 0~40 wt% of a second constituent selected from styrene and butadiene, into a copolymer, and subsequently neutralizing part or all of the carboxylic groups on said copolymer;

Please replace the Paragraph on Page 4, Lines 13-24, with the following amended Paragraph:

As shown in Figure 1, in one embodiment, the modified lithium ion polymer battery according to the invention comprises a positive electrode sheet a, a negative electrode sheet b, and a separation membrane c that form a an overlap/roll in a an alternative and isolation manner as ~~an~~ a positive electrode sheet a/negative electrode sheet b/separation membrane c. Then, electrode leads from positive and negative electrode sheets a and b are welded together, respectively. The thus-welded electrode leads are then welded with the positive and negative contacts out of the battery, respectively, without heat lamination. Thereafter, the positive or negative electrode sheets a or b ~~is~~ are welded together. An aluminum plastic film is used to pre-sealing over three sides and then the electrolyte is poured in. Finally, the last side is sealed and the whole battery is aged, evacuated and secondary sealed to yield the modified lithium ion polymer battery.

Please replace the Abstract on Page 10, Lines 2-16 with the following amended

Abstract:

A modified lithium ion polymer battery, ~~comprising~~ is provided, including a positive electrode sheet and a negative electrode sheet, formed by blending a binder with positive electrode powder and coating the resulting blend on a copper foil or an aluminum foil used as the collector, ~~wherein said.~~ The binder can be prepared from the following three components: (a) 0.1 wt%~95wt% of polyvinylidene fluoride; (b) 0.1 wt%~90wt% of a modified polyacrylates; and (c) 0.1 wt%~85wt% of a modified polyethylene or polydienes; alone, or from any two or all of them in a proper ratio; and a separation membrane, which is a non-porous polyalkylene oxide film or a film made by coating a blend of polyalkylene oxide and polyvinylidene fluoride (PVDF), or a micro-porous polypropylene film, or a three-layered composite film of polypropylene/polyethylene/polypropylene; ~~wherein said.~~ The positive and negative electrode sheets are laminated with ~~said~~ the separation membrane to form a an overlap sheet or roll in a an alternative and isolation manner; ~~said.~~ The electrode leads of the positive and negative collectors are welded, ~~respectively;~~ together and the whole laminate is assembled with an aluminum plastic membrane to form ~~said~~ the lithium ion polymer battery.